

**BY ORDER OF THE COMMANDER  
AIR FORCE SPACE COMMAND**



**AIR FORCE SPACE COMMAND  
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**Awards**

**AIR FORCE SPACE COMMAND SPACE AND  
MISSILE OPERATIONS AWARDS**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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This instruction implements Air Force Policy Directive 36-28, *Awards and Decorations Program*, and describes special trophies and awards sponsored by Air Force Space Command and by private organizations that seek Air Force participation. It applies to all Air Force Space Command units that meet the specified criteria for award. This instruction does not apply to the Air Force Reserve nor Air National Guard. After publication of this instruction, ACCR 900-50 will no longer be used for AFSPC guidance. It outlines how to nominate deserving individuals or units for these awards. Process supplements as shown in Air Force Instruction (AFI) 37-160, Volume 1, *The Air Force Publications and Forms Management Programs--Developing and Processing Publications*. Supplements will not lessen the basic eligibility requirements for awards or certificates. Forward one copy of supplements to HQ AFSPC/DOO, 150 Vandenberg Street, Suite 1105, Peterson AFB CO 80914-4200.

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**(14AF) AFSPCI 36-280501, 15 September 1996, is supplemented as follows:**

***SUMMARY OF REVISIONS***

This is the first publication of AFSPCI36-280501, superseding AFSPCR 900-7 and AFSPCR 900-17 and replacing ACCR 900-50 for AFSPC guidance. Space and Missile Competition awards have been added. Awards and certificates previously contained in ACCR 55-66 and SR 55-16, Volumes 1 and 2 have been included.

**(14AF) The revision of this publication is to meet the format standards required by the Air Force. No content material has changed. Some required format changes have been made to allow for the conversion process.**

## 1. Command Awards.

### 1.1. Descriptions.

**1.1.1. Colonel Lee R. Williams Memorial Award .** Awarded annually to recognize the outstanding missile wing/group in AFSPC. Colonel Williams was one of the early participants in the strategic missile program. He supervised the development of many important missile plans and programs while assigned to Vandenberg AFB and Headquarters Strategic Air Command. All missile wings and missile groups are eligible for this award. (OPR: HQ AFSPC/DOOM)

**1.1.2. General Robert T. Herres Award.** Awarded annually to recognize the outstanding space wing/group in AFSPC. General Herres was the Commander of Air Force Space Command from 30 Jul 84 through 3 Oct 86. His decisive and prudent management and operating of the assigned space assets strengthened the overall operational and managerial structure of the space mission. All space wings and space groups are eligible for this award. (OPR: HQ AFSPC/DOOS)

**1.1.3. The General Samuel C. Phillips Award .** This award is sponsored by the Association of Air Force Missileers (AAFM) and is awarded annually to recognize the best overall ICBM operations squadron. General Phillips was the program manager during the development and testing of the Minuteman ICBM system. Many of his ideas and concepts of operations are still in use today. All ICBM operations squadrons are eligible for this award. The Operations Support Squadrons are not eligible for this award. Cost for purchase and engraving of this award is born by the AAFM. (OPR: HQ AFSPC/DOOM)

**1.1.4. The Colonel Lowell F. McAdoo Award.** Awarded annually to recognize the best overall ICBM Operations Support Squadron (OSS) in AFSPC. A career missileer at wing, MAJCOM and USAF, Colonel McAdoo was the 91 SMW Deputy Director for Operations at the time of his untimely death in 1984. This award recognizes the ICBM OSS that made the most significant contributions in support of the ICBM mission. All ICBM Operations Support Squadrons are eligible for this award. (OPR: HQ AFSPC/DOOM)

**1.1.5. The General Seth J. McKee Award.** Awarded annually to recognize the best overall space warning squadron under AFSPC operational control, including RAF Fylingdales, UK. General McKee was Commander in Chief, North American Air Defense Command (NORAD) from 1969 to 1973. This award recognizes the unit that has made the best overall contribution to the force enhancement mission of AFSPC. All space warning squadrons are eligible for this award. (OPR: HQ AFSPC/DOOO)

**1.1.6. The General Donald J. Kutyna Trophy.** Awarded annually to recognize the best overall spacelift squadron in AFSPC. General Kutyna was Commander of Air Force Space Command from 1987 to 1990 and again from 1992 to 1993. All space launch and range operations squadrons are eligible for this award. (OPR: HQ AFSPC/DOOL)

**1.1.7. The General Thomas S. Moorman, Jr., Award.** Awarded annually to recognize the best overall space surveillance squadron under AFSPC operational control. General Moorman was instrumental in the planning, organizing, and establishment of Air Force Space Command while stationed at Peterson AFB in 1982. All space surveillance squadrons are eligible for this award. (OPR: HQ AFSPC/DOY)

**1.1.8. The General Bernard A. Schriever Award.** Awarded annually to recognize the best overall satellite operations squadron under AFSPC operational control. General Schriever

devoted the majority of his Air Force career to the advancement of space in the Air Force. All satellite operations squadrons and detachments and operating locations are eligible for this award. (OPR: HQ AFSPC/DOOS)

**1.1.9. ICBM Instructor/Evaluator of the Year (Cat 1 and 2)** . Awarded annually to recognize the outstanding performance of the ICBM instructor or evaluator making the most significant contributions to the AFSPC ICBM mission. This award is divided into two categories. Category 1 applies to certified missile combat crew members assigned to instructor or evaluator duty in an operational missile squadron, the Operations Support Squadron Training Division, or the Standardization and Evaluation Division. Category 2 applies to instructors or evaluators, in non-combat crew positions, who directly train or evaluate certified missile combat crew members or mission ready positions. (HQ AFSPC/DOT)

**1.1.10. Space Instructor/Evaluator of the Year (Cat 1 and 2)** . Awarded annually to recognize the outstanding performance of the instructor or evaluator making the most significant contributions to the AFSPC space mission. This award is divided into two categories. Category 1 applies to certified space operations crew members assigned to instructor or evaluator duty in an operational squadron, the Operations Support Squadron Training Division, Wing Safety Mission Flight Control Officer Duty, or the Standardization and Evaluation Division. Category 2 applies to instructors or evaluators, in non-crew positions, who directly train or evaluate mission ready crew members. (OPR: HQ AFSPC/DOT)

**1.2. Selection Criteria.** A unit's or individual's overall performance in accomplishing their portion of the AFSPC mission will be the determining factor for award nomination. Period of award accomplishments is 1 Jan to 31 Dec each year. Appropriate data supporting the nomination may include, but is not limited to:

- 1.2.1. Formal evaluation/inspection reports.
- 1.2.2. Competition results.
- 1.2.3. Meritorious achievements or service.
- 1.2.4. Safety.
- 1.2.5. Quality initiatives.
- 1.2.6. Other factors. Nominations should not overlook intangible/unquantifiable factors that affect the unit's mission.

**1.3. Nominating Procedures** . Each wing or group may submit one nomination for each applicable award category. The maximum length of the nomination package for an organizational award, excluding citation, will be two pages. Nominations for Instructor/Evaluator of the Year awards will not exceed one page.

1.3.1. Nominations containing classified material (secret or confidential) are acceptable. Apply the proper security markings to the entire nomination package. Nominations will be submitted in bullet format with supporting data attached. Each nomination must contain the following:

- 1.3.1.1. Concise information specifying the dates and facts connected with the accomplishments or performance of the unit or individual.
- 1.3.1.2. A citation (unit awards only) to accompany the award. The citation will highlight the

nomination package in approximately 100 words. Use the guidelines in AFI 36-2805, Atch 3, for the citation.

1.3.2. The original and three copies of the nomination package will be sent to the NAF/DO to arrive no later than 31 Jan.

1.3.3. After selecting the award winner, the NAF/CC will send the original nomination and one copy to HQ AFSPC/DOO to arrive no later than 28 Feb.

1.3.4. HQ AFSPC/DOO prepares the package for AFSPC/CC approval.

**1.4. Presentation .** The winners of trophies or awards will be notified by a congratulatory AFSPC/CC message. The AFSPC/CC or designated representative will present the awards. Cost for manufacturing and engraving trophies or awards will be defrayed by HQ AFSPC/DO using appropriated funds.

**1.5. Disposition of the Colonel Lee R. Williams Memorial Award .** This trophy is not a permanent possession of the recipient but will be rotated annually. The unit currently possessing the trophy is responsible for safeguarding it from theft or damage. When notified to return the trophy, it will be cleaned and any damage repaired prior to shipment. HQ AFSPC/DOO will provide a miniature trophy to 20 AF/CC for permanent retention by the unit.

## **2. Air Force Association (AFA) Awards:**

**2.1. General Thomas S. Power Outstanding Missile Crew Award .** Awarded annually by the AFA to recognize the best missile crew in AFSPC. General Power was Commander-in-Chief, Strategic Air Command, from 1957 to 1964. He was the “father” of SAC’s ICBM force and was directly involved in the planning and deployment of the Atlas, Titan, and Minuteman ICBMs. All missile combat crews are eligible for this award. (OPR: HQ AFSPC/DOOM)

**2.2. Best Space Operations Crew Award.** Awarded annually by the AFA to recognize the best space operations crew in AFSPC. Nominees must be Air Force personnel working as a space operations mission-ready crew. Military members assigned to other services and military foreign nationals, that is, Australian and Canadian, are also eligible when integrated into the Air Force operations crew. (OPR: HQ AFSPC/DOOS)

**2.3. Selection Criteria .** Nominees will be rated based upon sustained superior performance in all aspects of space or missile operations. Performance as a crew or team will be the determining factor for selection. An outstanding crew will be selected over outstanding individuals. Period for award accomplishments is 1 Jan to 31 Dec. Appropriate data supporting the nomination may include, but is not limited to:

2.3.1. Formal evaluations and inspections.

2.3.2. Exercise participation.

2.3.3. Competition results.

2.3.4. Safety.

2.3.5. Other special recognition of the crew.

2.3.6. Special projects **completed** during the award period.

**2.4. Nominating Procedures.** Each wing or group may submit one nomination. The maximum length of the nomination narrative is two pages.

2.4.1. Narratives are unclassified and submitted in bullet format with supporting data attached. Each nomination package contains the following:

2.4.2. Transmittal letter.

2.4.3. Cover sheet with complete unit designation and location, crew number, individuals' names, and social security numbers.

2.4.4. A stand alone nomination narrative with concise information specifying the dates and facts connected with the achievements and/or service of the crew. Include only information and achievements that cover the period of the award.

2.4.5. Three different 5 X 7 color action photos of the nominated crew.

2.4.6. A recommended citation not to exceed 50 words. Use the guidelines in AFI 36-2805, Atch 3.

2.4.7. Send the original and three copies of the nomination package to the NAF/DO to arrive no later than 1 March.

2.4.8. After selecting the command nomination, the NAF/CC sends the original nomination and one copy to HQ AFSPC/DOO to arrive no later than 1 Apr.

2.4.9. HQ AFSPC/DOO prepares the package for AFSPC/CC approval and forwards package to the AFA to arrive no later than 1 May. AFA reserves the right to approve and announce winners.

**2.5. Presentation.** A presentation ceremony is conducted by the AFA at the annual AFA National Convention. An individual award is presented to the crew commander on behalf of the winning crew.

### **3. Competition Awards:**

**3.1. Descriptions.** These awards are earned through the GUARDIAN CHALLENGE Space and Missile Competition. Specific eligibility and award criteria are contained in the GUARDIAN CHALLENGE Competition Plan. HQ AFSPC/DO GUARDIAN CHALLENGE Project Officer is responsible for budgeting for the cost of these trophies.

**3.1.1. The Blanchard Trophy.** Named after General William H. Blanchard, Director for Operations, SAC, when the first ICBMs entered the SAC weapons inventory and the former Vice Chief of Staff, this trophy recognizes the Best Missile Operations Squadron Team.

**3.1.2. The O'Malley Trophy.** Named after General Jerome F. O'Malley, former Commander of TAC, for his long-time support of the Air Force space effort and the transfer of the missile warning mission to SAC (now AFSPC), this trophy recognizes the Best Space Warning Squadron Team.

**3.1.3. The Schriever Trophy.** Named after General Bernard A. Schriever, former commander of the Western Development Division, for his driving force in the development of early ICBMs from which US space boosters were derived, this trophy recognizes the Best Spacelift Squadron Team.

**3.1.4. The Arnold Trophy.** Named after General Henry "Hap" Arnold, the first Air Force Chief of Staff and who chartered the Von Karman study that was instrumental in initiating the US space program, this trophy recognizes the Best Space Surveillance Squadron Team.

**3.1.5. The Aldridge Trophy.** Named after former Secretary of the Air Force, Edward “Pete” Aldridge, a strong supporter of satellite operations, this trophy recognizes the Best Satellite Operations Squadron Team.

**3.1.6. Best Operations Crew.** These trophies recognize the best operations crews in each of the mission areas as specified in the GUARDIAN CHALLENGE Competition Plan.

**3.2. Disposition of Awards.** Awards are presented at the awards ceremony conducted as part of the GUARDIAN CHALLENGE competition.

3.2.1. All unit awards are rotating awards and remain the property of HQ AFSPC.

3.2.1.1. Units currently possessing the awards are responsible for safeguarding them from theft or damage from time of presentation until returned to the next competition.

3.2.1.2. Units will clean and repair awards prior to shipment to the next GUARDIAN CHALLENGE.

3.2.1.3. The previous years’ winning unit will receive a commemorative award for permanent retention.

3.2.2. An individual award is presented to each winning team member for permanent retention in recognition of their contribution to winning the team award.

**3.3. Other Competition Awards .** Other individual/team awards may be used to recognize outstanding competitors or teams during the GUARDIAN CHALLENGE Space and Missile Competition. The specific awards and their criteria will be contained in the GUARDIAN CHALLENGE Competition Plan.

**4. Space Launch Excellence Award.** This award recognizes the space launch teams that effectively achieve the following within a calendar year (1 Jan - 31 Dec):

4.1. All launches meet the final orbit apogee, perigee, and inclination requirements stated in the Payload Interface Control Document.

4.2. Eighty percent of all launches with a Department of Defense (DoD) or DOD Classified Launch and Deployment Authority occur within minus three and plus 10 days of the accountable launch date. The accountable launch date is the range launch date in effect at:

4.2.1. Booster on Stand for Atlas, Delta, and Titan II.

4.2.2. Vertical Integration Building Rollout for East Coast Titan IV.

4.2.3. First Solid Rocket Motor (SRM)/SRM Upgrade Erection for West Coast Titan IV.

4.3. No Class A or B Safety Mishaps or major security violations (resulting in compromise).

4.4. Presentation. Units eligible for the award will be notified by a congratulatory AFSPC/CC message. The AFSPC/CC or designated representative will present the awards. Cost for manufacturing and engraving awards will be defrayed by HQ AFSPC/DO using appropriated funds. Units will provide launch team members an AFSPC Form 183, Space Lift Excellence Certificate.

4.5. HQ AFSPC/DOOL is the office of primary responsibility for this award.

**5. Crew Recognition Program:**

**5.1. Description.** This program recognizes unit crew members for successfully attaining mission ready status in duty positions, completion of crew tours and alerts, and crew member excellence.

**5.2. Operations Mission-Ready Certificate, AFSPC Form 97.** Use this form to recognize an individual upon certification in a mission ready crew duty position.

**5.3. Missile Combat Crew Commander Certificate, AFSPC Form 180.** Use this form to recognize an individual upon mission ready certification as a Missile Combat Crew Commander.

**5.4. Missile Combat Crew Member Certificate, AFSPC Form 181.** Use this form to recognize an individual upon mission ready certification as a Deputy Missile Combat Crew Commander.

**5.5. Missile Crew Tour Completion Certificate, AFSPC Form 182.** Use this form to recognize a missile combat crew member who has completed his or her missile tour.

**5.6. ICBM 100 Alerts Certificate, AFSPC Form 184.** Use this form to recognize a missile combat crew member upon completion of 100 alerts.

**5.7. ICBM 200 Alerts Certificate, AFSPC Form 185.** Use this form to recognize a missile combat crew member upon completion of 200 alerts.

**5.8. Missile Warning 200 Shifts Certificate, AFSPC Form 188.** Use this form to recognize a missile warning mission ready crew member upon completion of 200 shifts.

**5.9. Missile Warning 400 Shifts Certificate, AFSPC Form 189.** Use this form to recognize a missile warning mission ready crew member upon completion of 400 shifts.

**5.10. Space Surveillance 200 Shifts Certificate, AFSPC Form 190.** Use this form to recognize a space surveillance mission ready crew member upon completion of 200 shifts.

**5.11. Space Surveillance 400 Shifts Certificate, AFSPC Form 191.** Use this form to recognize a space surveillance mission ready crew member upon completion of 400 shifts.

**5.12. Spacelift Level 1 Launch Certificate, AFSPC Form 192.** Use this form to recognize a spacelift mission ready crew member upon attainment of level 1 launch status. See [Attachment 1](#) for criteria for level 1 designation.

**5.12.1. (Added-14AF) Criteria.** Criteria is based on Ops tempo and available mission ready personnel. The criteria formula for awarding spacelift crew member launch certificates is:

**The Average Number of Launch Operations Per Year x Level Factor = Alert Rate**

**Mission Ready Personnel in Unit**

**5.12.2. (Added-14AF) Definitions.**

**5.12.2.1. (14AF) Average Number of Launch Operations Per Year.** Based on the previous 3 years of launch operations conducted by the unit. The following are specifically NOT included in the average: scrubbed launches; Mission Dress Rehearsals; Wet Dress Rehearsals; Simulations; Competitions; and Exercises. Only one launch operation for each Operation Number may be used in the calculation (for example, a Navy operation may launch 1 or more missiles, but this constitutes one launch operation). This reinforces the importance of launching at first opportunity and limits it to critical operations.

**5.12.2.2. (14AF) Mission Ready Personnel in Unit.** Based on the number of Mission Ready personnel currently certified in the unit assigned. These positions are defined as:

**Launch Director, launch Controller, Range Control Officer, Range Operations Commander, Aeronautical Control Officer, launch Weather Officer, Flight Control Officer, and Upperstage Vehicle Manager.**

**5.12.2.3. (14AF) Level Factor.** This factor ensures time of service is consideration. use two levels of awards by having level factor of 1.5 years and 3 years. These level factors approximate the Missile 100 and 200 alert certificates.

**5.12.2.4. (14AF) Alert Rate.** This rate is calculated after each launch operation conducted by the unit. Personnel are awarded certificates for two different levels using the following rules. All levels use "round up" alert rates, e.g., an Alert Rate of 1.3 is rounded up to 2 for determining award recipients. The first level alert rate (using 1.5 years level factor) must be at least 1. The second level alert rate (using 3 years level factor) must be at least 2.

**5.12.3. (Added-14AF) Examples.** The following examples use actual data as of 1 Jun 95. The chart reveals 1 SLS personnel must accomplish 2 launch operations for level 1 awards and 3 launch operations for level 2 awards. 5 SLS personnel must have accomplished 1 launch operation for level 1 awards and 2 launch operations for level 2 awards.

<b>UNIT</b>	<b>ALERT OPS AVG (last 3 yrs)</b>	<b>ALERT OPS PER YEAR</b>	<b>NUMBER OF MR IN UNIT</b>	<b>ALERT RATE (level 1)</b>	<b>ALERT RATE (level 2)</b>
1 SLS	17	6	6	1.42	2.83
2 SLS	3	1	11	0.14	0.27
3 SLS	19	6	7	1.36	2.71
4 SLS	5	2	8	0.31	0.63
5 SLS	5	2	23	0.11	0.22
*30 RANS	231	77	14	8.25	16.50
*45 RANS	110	36	8	4.50	9.00
30 SW/SE	42	14	6	3.50	7.00
45 SW/SE	110	36	10	4.80	9.60
30 WS	40	13	5	4.00	8.00
45 WS	69	23	5	6.90	13.80

**\*Do not count Air Ops under this program.**

**5.13. Spacelift Level 2 Launch Certificate, AFSPC Form 193.** Use this form to recognize a spacelift mission ready crew member upon attainment of level 2 launch status. See [Attachment 1](#) for criteria for level 2 designation.

**5.13.1. (Added-14AF) Criteria.** Refer to Spacelift Crew Member Level 1 Launch Certificate for criteria, definitions, and examples for awarding Spacelift Crew Member Level 2 Launch Certificates.



**5.14. Satellite Control 250 Shifts Certificate, AFSPC Form 194.** Use this form to recognize a satellite control mission ready crew member upon completion of 250 shifts.

**5.15. Satellite Control 500 Shifts Certificate, AFSPC Form 195.** Use this form to recognize a satellite control mission ready crew member upon completion of 500 shifts.

**5.16. AFSPC Crew Member Excellence Award.** This award recognizes sustained highly qualified performance during space operations evaluations.

5.16.1. To be eligible, individuals must achieve a minimum of five highly qualified (HQ) ratings out of seven consecutive evaluations. An unqualified (UQ) rating resets the counter to zero. HQ ratings are cumulative in all space operations mission areas (e.g., ICBM operations, missile warning, etc.) Individuals previously recognized under similar programs do not automatically qualify for recognition under this program. To qualify, individuals must show documented proof of previous evaluation results that meet established requirements. Evaluations conducted prior to implementation of this instruction and which meet the above criteria count toward eligibility with the following guidance:

5.16.1.1. No critical, restricted, major, or listed errors were committed during any evaluation.

5.16.1.2. No more than four minor errors or non-mission critical deficiencies were committed during any evaluation.

5.16.2. Wing/groups will administer the program using guidance within this instruction. HQ AFSPC/DOT will provide AFSPC Form 186, Crew Member Excellence Award Certificates and patches to the units. Wing/group commanders will sign the certificates prior to presentation.

## **6. Forms Prescribed:**

- 6.1. AFSPC Form 97, Operations Mission-Ready Certificate.
- 6.2. AFSPC Form 180, Missile Combat Crew Commander Certificate.
- 6.3. AFSPC Form 181, Missile Combat Crew Member Certificate.
- 6.4. AFSPC Form 182, Missile Crew Tour Completion Certificate.
- 6.5. AFSPC Form 183, Space Lift Excellence Certificate.
- 6.6. AFSPC Form 184, ICBM 100 Alerts Certificate.
- 6.7. AFSPC Form 185, ICBM 200 Alerts Certificate.
- 6.8. AFSPC Form 186, Crew Member Excellence Award Certificate.
- 6.9. AFSPC Form 188, Missile Warning 200 Shifts Certificate.
- 6.10. AFSPC Form 189, Missile Warning 400 Shifts Certificate.
- 6.11. AFSPC Form 190, Space Surveillance 200 Shifts Certificate.
- 6.12. AFSPC Form 191, Space Surveillance 400 Shifts Certificate.
- 6.13. AFSPC Form 192, Spacelift Level 1 Launch Certificate.
- 6.14. AFSPC Form 193, Spacelift Level 2 Launch Certificate.
- 6.15. AFSPC Form 194, Satellite Control 250 Shifts Certificate.

6.16. AFSPC Form 195, Satellite Control 500 Shifts Certificate.

DONALD G. COOK, Brigadier General  
Director of Operations

## Attachment 1

## SPACELIFT LEVEL 1 AND 2 ELIGIBILITY CRITERIA

**A1.1.** Apply the following formula for determining eligibility for award of Spacelift Crew Member Level 1 and Level 2 Launch Certificates:

$$\frac{\text{Average Number of Launch Operations per Year (ALNO)}}{\text{Mission Ready Personnel in Unit (MRPU)}} \times \text{Level Factor} = \text{Alert Rate}$$

**A1.2.** Definitions:

A1.2.1. Average Number of Launch Operations per Year. Based on the previous three years of launch operations conducted by the unit. The following are specifically excluded in the average: scrubbed launches, Mission Dress Rehearsals, Wet Dress Rehearsals, Simulations, Competitions, and exercises. Only one launch operation for each operation number may be used in the calculation. For example, a Navy operation may launch more than one missile, but this constitutes one launch operation.

A1.2.2. Mission Ready Personnel in Unit. Based on current number of mission ready personnel currently certified in the unit assigned.

A1.2.3. Level Factor. Use 1.5 for level 1 certificates and 3 for level two certificates.

A1.2.4. Alert Rate. This rate is calculated after each launch operation conducted by the unit. Personnel are awarded certificates for two different levels using the following rules.

A1.2.4.1. All rates will be rounded up for determining award recipients.

A1.2.4.2. Level 1 alert rate must be at least 1. Level 2 alert rate must be at least 2.

**A1.3.** Examples. The following chart uses actual data as of 1 Jun 95. Using this data, personnel assigned to the 1 SLS would have to be involved with at least 2 launch operations (1.5 rounded up to 2) to receive a level 1 certificate and at least 3 operations to receive a level 2 certificate. Personnel assigned to the 45 RANS would have to be involved in at least 5 operations (4.3 rounded up to 5) to receive the level 1 certificate and at least 9 operations (8.6 rounded up to 9) to receive a level 2 certificate.

Unit	ALNO	MRPU	Alert Rate (level 1)	Alert Rate (level 2)
1 SLS	6	6	1.5	3
3 SLS	6	7	1.2	2.5
5 SLS	2	23	.13	.26
45 RANS	23	8	4.3	8.6
45 WS	23	5	6.9	13.8
2 SLS	1	11	.13	.27
4 SLS	2	8	.37	.75

Unit	ALNO	MRPU	Alert Rate (level 1)	Alert Rate (level 2)
30 RANS	77	14	8.2	16.5
30 WS	13	5	3.9	7.8
30 SW/SE	14	6	3.5	7